PTO/SB/08A (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)
Sheet 1 of

	Complete if Known	
Application Number	10/631880	
Filing Date	July 31, 2003	
First Named Inventor	RICHARD ALLEN HAYES	
Group Art Unit	1711	
Examiner Name		
Attorney Docket Number	AD6889USNA	

				U.S. PATE	NT DOCUMENTS	_	
Examiner Initials	Cite No.1	Cite No.1 Number - Kind Code² (if kno		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
THE S		US-	6,368,710 B1	4-9-2002	Hayes		
11125		US -	2003/0036626 A1	2-20-2003	Hayes et al.		
MA		US -	2003/0088033 A1	5-8-2003	Shelby et al.		
		US -					
T = 1		US -					
		US -					
		US -					
		US -					
		US -					
		US -					
		US -					
		US -					
		US-					
		US -					
		US -					
		US-					
		US-					
		US -					
		US -					
		US -					

	FOREIGN PATENT DOCUMENTS								
Examiner C	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
Initials*	No.1	CountryCode ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document		То			
	<u> </u>								

Examiner Signature Date Considered 10/12/05

*EXAMINER: Initial if reference considered, whether or not ditation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.com/wwww.uspto.com/www.uspto.com/www.uspto.com/www.uspto.com/www.uspto.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number 10/631880

Filing Date July 31, 2003

First Named Inventor RICHARD ALLEN HAYES

Group Art Unit 1711

Examiner Name

Ab6889USNA

		y sneets as n		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	AD6889USNA		
		OTHE	R PRIOR ART -	NON PATENT LITERA	TURE DOCUMENTS		
Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
),	PCT Inter	national Search Repor	t for International application h	No. PCT/US2004/024463, dated 11/30/2004		
7							
				·			
Examiner	161	PMM	m Bou	Date .	10/10/25		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
persons are required to respond to a collection of Information unless it contains a valid OMB control number. Under the Paperwork R

Substitute for form 1449/PTS TRANES

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 10/631880 July 31, 2003 Filing Date First Named Inventor Richard Allen Hayes 💢 🚁 👌 Art Unit **Examiner Name** Attorney Docket Number | AD6889USNA

				U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.	Document Number Number-Kind Code ^{2 (# known)}		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
#5		US-	3,563,942	02-16-1971	Heiberger	
14		US-	3,634,541	01-11-1972	Popp, et al.	`
7		US-	3,779,993	12-18-1973	Kibler, et al.	
1		US-	4,104,262	08-01-1978	Schade	
		US-	4,340,519	07-20-1982	Kotera, et al.	
		US-	4,390,687	06-28-1983	Tung	
		US-	4,476,189	10-09-1984	Posey, et al.	
		US-	5,171,308	12-15-1992	Gallagher, et al.	
		US-	5,171,309	12-15-1992	Gallagher, et al.	
		US-	5,219,646	06-15-1993	Gallagher, et al.	
		US-	5,295,985	03-22-1994	Romesser, et al.	
		US-	5,936,045	08-10-1999	Warzelhan, et al.	
		US-	6,018,004	01-25-2000	Warzelhan, et al.	
		US-	6,046,248	04-04-2000	Warzelhan, et al.	
1		US-	6,114,042	09-05-2000	Warzelhan, et al.	
		US-	6,201,034 B1	03-13-2001	Warzelhan, et al.	
T		US-	6,258,924 B1	07-10-2001	Warzelhan, et al.	
₽		US-	6,297,347 B1	10-02-2001	Warzelhan, et al.	
12		US-	6,342,304 B1	01-29-2002	Buchanan, et al.	

		FOREI	GN PATENT DOCU	MENTS		
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁸ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
Po		WO 01/19909 A1	03-22-2001	BASF Aktiengesellschaft		
173		WO 02/16468 A1	02-28-2002	E. Khashoggi Industries		
10						

Examiner Date Considered Signature

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.